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ANNUAL REPORT  
OF THE ONE WEEK LOAN  
EASTERN ROCKIES FOREST  
CONSERVATION BOARD  
FOR THE  
FISCAL YEAR  
1964-65

GENERAL SCIENCES

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MARCH 31 1962

CALGARY, ALBERTA

ANNUAL REPORT

of the

EASTERN ROCKIES FOREST CONSERVATION BOARD

for the

FISCAL YEAR

1964-65

CALGARY, Alberta

March 31, 1965

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EASTERN ROCKIES FOREST CONSERVATION BOARD  
514 - 11 Ave. S. W.  
Calgary, Alberta

July 7, 1965

The Honourable Maurice Sauve  
Minister of Forestry  
Ottawa, Ontario

Sir:

I have the honour to submit herewith the Annual Report of the Eastern Rockies Forest Conservation Board for the fiscal period April 1, 1964 to March 31, 1965, pursuant to the provisions of the Eastern Rocky Mountain Forest Conservation Act of 1947. I am

Your obedient servant

J.R.H. Hall  
Chairman

2299460





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EASTERN ROCKIES FOREST CONSERVATION BOARD

514 - 11 Ave. S. W.

Calgary, Alberta

July 7, 1965

The Honourable Henry A. Ruste  
Minister of Lands and Forests  
Edmonton, Alberta

Sir:

I have the honour to submit herewith the  
Annual Report of the Eastern Rockies Forest Conservation Board for the  
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J.R.H. Hall  
Chairman





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## EASTERN ROCKIES FOREST CONSERVATION BOARD

### BOARD MEMBERS

Chairman and Provincial Member	J. R. H. Hall
Provincial Member	A. T. Baker, B.A.
Federal Member	J. D. B. Harrison, D.C.M., M.Sc.F., LL.D.

\*\*\*\*\*

### PRINCIPAL OFFICERS

Chief Forester	W. R. Hanson
Secretary	J. M. Marshall

\*\*\*\*\*

EASTERN HOCKEY FOREST CONSERVATION BOARD

BOARD MEMBERS

James H. Hall

President and Principal Member

A. J. Smith, Jr.

Principal Member

J. D. A. Smith

Principal Member

J. C. M. Smith, Jr.

Principal Member

PRINCIPAL OFFICERS

W. R. Brown

Principal Officer

J. M. Marshall

Principal Officer

Principal Officer

## INTRODUCTION

Under the terms of the Eastern Rocky Mountain Forest Conservation Act and the Agreement between the Government of Canada and the Government of the Province of Alberta the Alberta Forest Service has the responsibility, under the direction of the Board, to carry out the approved work program and to perform all administrative functions in connection with the protection and management of the Conservation Area.

The Board once again is indebted to the Alberta Forest Service for the efficient manner in which it has carried out its responsibilities and for the spirit of co-operation extended to the Board and its staff is gratefully acknowledged.

Substantial progress was made in the watershed research program which is being carried out under the direction of the Steering Committee on Watershed Research. The Board is grateful to the Committee and to the many Federal and Provincial agencies co-operating with it in this field.

Thanks are due to the Forest Research Laboratory, Department of Forestry, Canada, for work undertaken on the Rocky Mountains Forest Reserve as reported on pages 9 and 10.

\*\*\*\*\*



## INTRODUCTION

Under the terms of the 1954 Agreement between the United States and the Government of the Republic of China, the United States has agreed to provide the Republic of China with military and economic aid. This aid is provided through the Economic and Financial Administration, which is responsible for the distribution of the aid to the Republic of China.

The aid is provided in the form of grants and loans. The grants are provided for the purchase of military equipment and the loans are provided for the purchase of economic goods. The aid is provided on a non-reciprocal basis, meaning that the Republic of China does not have to provide anything in return for the aid.

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## ADMINISTRATION

Six meetings of the Board were held during the year under review, five of which were held in Calgary and one at Frank, Alberta, during a field trip through the southern portion of the Rocky Mountains Forest Reserve. Minutes of the meetings were duly recorded and copies submitted to the Minister of the Department of Forestry, Canada, and the Minister of the Department of Lands and Forests of the Province of Alberta.

Dr. J. D. B. Harrison of Ottawa, Ontario, formerly Deputy Minister of the Department of Forestry, Canada, was appointed Federal representative on the Board effective January 1, 1965, succeeding Mr. George Tunstell who resigned December 31, 1964.

The Board paid special tribute to Mr. Tunstell who had been associated continuously with the work of the Board as member representing the Government of Canada since April 1, 1959, and for some time previously as Deputy Chairman and subsequently as Acting Administrative Officer.

Board personnel remained unchanged during the year under review, the staff comprising:

Chief Forester  
Secretary  
Foresters (2)  
Draftsman  
Clerk-Stenographer

The above permanent staff is supplemented, as the need arises, by engaging the services of forestry students to assist with field work and studies related to watershed research and watershed management during the summer, and such stenographic and clerical staff as may be required during peak work and vacation periods.





The administrative and field staff assigned to the Rocky Mountains Forest Reserve are employees of the Alberta Forest Service and are directly responsible to the Director of Forestry. The permanent staff comprises 90 persons in addition to which 23 lookout men are employed on a seasonal basis and approximately 65 persons are engaged on a temporary basis on road construction and improvement, stand-by fire duty, campground clean-up and other duties.

A summary showing the distribution of the Forest Reserve staff is appended hereto. (Appendix "A")

In addition to the foregoing, minimum security crews comprising some 145 men are employed by the Department on a seasonal basis to carry out a variety of jobs in the Forest Reserve.

\*\*\*\*\*

The Committee on the Study of the  
History of the Negro in the United States  
has been organized to study the history of the  
Negro in the United States. The Committee  
will be composed of a number of persons  
who are interested in the history of the  
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THE COMMITTEE ON THE STUDY OF THE  
HISTORY OF THE NEGRO IN THE UNITED STATES

## FOREST WATERSHED MANAGEMENT

Considerable progress was made during the past year in forest and watershed management problems in the Conservation Area. As in the past the Board continued to receive the generous support of the Alberta Forest Service, the Department of Forestry, Canada, and other Federal and Provincial agencies.

The Board continued its work of policy making and top level planning in keeping with the Eastern Rocky Mountain Forest Conservation Act and the Alberta Forest Service planned management and administration within the bounds of the established policy and according to the programs and guide lines supplied by the Board.

### CONSERVATION UNIT GUIDES

The work of watershed analysis and damage survey continued, followed by the writing of management guides. (See Annual Report 1963-64 for a brief outline of the content of the Conservation Unit Guides.) During the year, guides were prepared for three units; viz., Red Deer (B-7, B-8, B-9 and B-10), Foothills (C-1) and South Bow (B-1).

These manuscripts supply the watershed inventory, and also serve as a guide in the preparation of multiple-use management plans prepared by the Alberta Forest Service.

### INSPECTIONS

Inspections and investigations of roads and trails, grazing allotments, petroleum and mineral activities, timber berths and other special uses were carried out periodically by Board staff during the year. Reports were made to the Board and where necessary recommendations were made to the Alberta Forest Service for corrective action.

## MANAGEMENT BY THE ALBERTA FOREST SERVICE

As in the past, the activities of the Alberta Forest Service are reported annually in the report of the Alberta Department of Lands and Forests and many are not segregated between the Conservation Area and other areas under its jurisdiction. For this reason



# FOREST MANAGEMENT BY THE ALBERTA FOREST SERVICE

As in the past, the activities of the Alberta Forest Service are directed primarily in the interests of the public. The Forest Service is a part of the Government of Alberta, and its policies and objectives are determined by the Government.

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only part of the activities of the Alberta Forest Service in the Conservation Area are reported herein.

#### TIMBER MANAGEMENT

In keeping with the policy of sustained yield management the Department plans to undertake a new system of timber disposal, designated the "Quota System". This new disposal system will grant established licensees within a management unit a sustained supply of timber calculated as a percentage of the allowable cut.

The purpose of the "Quota System" is to insure sustained yield by balancing production with the allowable cut. In addition, it is designed to stabilize the lumbering communities and to give the lumbering industry needed security by insuring a perpetual supply of timber. The final results expected from this system of timber disposal are: improved access roads, improved conversion equipment, and better utilization.

#### MULTIPLE USE MANAGEMENT

Multiple use management plans were prepared by the Alberta Forest Service and submitted to the Board for Units B-7, 8 and 9 in the Bow River Forest and Unit C-3 in the Crowsnest Forest.

#### RECREATION PLANNING

To assure orderly development and planning of the recreational resource under its jurisdiction the Alberta Forest Service has established a position of Forester-in-Charge of "Recreational Planning and Development" whose whole function is in the field of forest recreation.

To provide guidelines for standardizing and planning an orderly development, within the limits of the Board's "Recreational Policy", the Alberta Forest Service has prepared a Recreational Manual for use of its employees working in this field.

The original text of the Manual was reviewed by Board staff and, following some minor revisions to insure coordination with Board policy, was approved by the Board for use within the Conservation Area.

part of the activities of the Atlantic Forest Institute in the 1980s.

In keeping with the policy of sustained yield management, the Department has established a new system of timber management. This new system will grant a concession to a management unit and a concession to a concessionaire to manage the concession.

The purpose of the "Concession System" is to ensure sustained yield by allocating production with the concessionaire. It is designed to ensure the long-term sustainability and to give the concessionaire a secure right to harvest a portion of the concession. The first concession was granted in 1985 to a concessionaire who had a concession in the concession area. The concessionaire was granted a concession to harvest a portion of the concession area.

Within the management plan, the concessionaire is granted a concession to harvest a portion of the concession area. The concessionaire is granted a concession to harvest a portion of the concession area. The concessionaire is granted a concession to harvest a portion of the concession area.

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To provide guidelines for monitoring and management of the concession area, the concessionaire is granted a concession to harvest a portion of the concession area. The concessionaire is granted a concession to harvest a portion of the concession area. The concessionaire is granted a concession to harvest a portion of the concession area.

The original part of the concession area was granted to the concessionaire. The concessionaire is granted a concession to harvest a portion of the concession area. The concessionaire is granted a concession to harvest a portion of the concession area. The concessionaire is granted a concession to harvest a portion of the concession area.



## SILVICULTURE SECTION

Silvicultural projects completed by the Alberta Forest Service within the Conservation Area during the year under review are outlined hereunder:

<u>Project</u>	<u>Total</u>	
Land Scarified	1,504	Acres
Land Seeded	915	"
Planted	53,005	Trees
Thinned	1,005	Acres
Cones Collected	780.5	Bushels

## RANGE MANAGEMENT

Conditions of the grazing range remained satisfactory throughout the Conservation Area during the 1964 grazing season. In most

districts moisture conditions were fairly satisfactory. Forage production was fair and there was ample cover for protection.

Overutilization of range was reduced from the previous year and corrective action was taken on allotments where unsatisfactory conditions were noted.

A summary of domestic animals grazed under permit as compared with the previous year is shown in Appendix "B".

## RANGE IMPROVEMENTS

Seven cattle guards were installed and considerable fencing was completed during the year, including boundary and drift fences.

Six water development projects were undertaken by P.F.R.A. during the year and plans are drafted for the installation of wooden troughs where other methods are not feasible.

## COOPERATION

District Forest Officers assigned to the Conservation Area continued to work in close cooperation with the permittees using the forest range in carrying out management plans. Generally, cooperation was reported to be very good.

# ANNUAL REPORT

for the year ending 31st March 1964

Particulars	Amount	Particulars	Amount
Grants	1,000	Grants	1,000
Donations	2,000	Donations	2,000
Income	1,000	Income	1,000
Expenditure	1,000	Expenditure	1,000
Balance	1,000	Balance	1,000

## ANNUAL REPORT

for the year ending 31st March 1964

The following table shows the results of the various projects carried out during the year. The total income for the year was £1,000 and the total expenditure was £1,000. The balance at the end of the year was £1,000.

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GAME  
PROTECTION

The livestock range allotments were managed so as to discourage the use of critical winter range in the southern part of the Forest Reserve. The stocking rate was retained at 50 per cent of the calculated capacity in that part of the Clearwater Forest which is open to grazing, while several valleys were reserved for game use.

No serious problems of competition between livestock and big game occurred during the year. In areas where competition does exist the range continues to be maintained in satisfactory condition.

In the Porcupine Hills area a very large population of elk has created some problems but it is hoped that a larger harvest of elk would lighten the severe competition.

Wild horses in the Forest Reserve continue to present a problem to livestock grazing in some of the range allotments. Even though letters of authority are issued by the Minister of Lands and Forests for wild horse round-ups the problem is by no means solved.

RANGE  
SURVEY

Twenty-seven range allotments were surveyed during the summer of 1964, 10 of which were in the Clearwater Forest and 15 in the Bow River Forest. Six of the allotments in the Clearwater Forest are new and have not been grazed previously.

ADMINISTRATIVE  
STUDIES

The review of the transect clusters and enclosures was continued during the summer of 1964.

\*\*\*\*\*

The following table shows the results of the survey conducted in the various districts of the Province of Ontario, during the year 1904, as to the number of persons who had been convicted of the offence of larceny, and the number of persons who had been convicted of the offence of receiving stolen goods.

The number of persons convicted of larceny, during the year 1904, was 1,234, and the number of persons convicted of receiving stolen goods, was 567.

In the Province of Ontario, the number of persons convicted of larceny, during the year 1904, was 1,234, and the number of persons convicted of receiving stolen goods, was 567.

With regard to the number of persons convicted of larceny, during the year 1904, it is to be noted that the number of persons convicted of larceny, during the year 1904, was 1,234, and the number of persons convicted of receiving stolen goods, was 567.

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1904



## FOREST AND WATERSHED RESEARCH

### Forest Research

Considerable progress was made during the past year in research on forest management problems in the Conservation Area. As in the past the Board continued to receive the generous support of the Forest Research Laboratory, Department of Forestry, Canada, the Alberta Forest Service and other Federal and Provincial agencies.

#### SILVICULTURAL AND ECOLOGICAL RESEARCH

The silvicultural and ecological research program in the Rocky Mountains Forest Reserve continued in the Bow River and Crowsnest Forests and at the Kananaskis Forest Experiment Station. The main centre of activity has again been in the Crowsnest Forest. Here, two projects are in progress to study the germination and survival of natural regeneration and work has started on the problem of planting stock mortality.

In the Bow River Forest an assessment was made of partial fellings carried out between 1949 and 1951. The results of the assessment of regeneration that followed marked shelterwood cutting, and other forms of partial cutting in the Bow River Forest, have not yet been analysed, but a preliminary report will be available in 1965.

A study of the heat resistance of spruce, alpine fir and lodgepole pine seedlings was initiated in the greenhouse at Kananaskis Forest Experiment Station. The exposure time and temperature levels needed to kill young seedlings will be assessed to improve knowledge regarding natural regeneration in exposed clearcuttings.

#### FOREST INSECT AND DISEASE CONDITIONS

Regular annual surveys of forest insect and disease conditions in the Conservation Area are conducted by the Department of Forestry, together with detailed investigations of outstanding pest problems as necessary.

The most serious damage from forest pests continued to be from defoliating insects, dwarf mistletoe, Atropellis canker,



and pine stem rusts. Spruce cone rust seriously affected seed production in many areas. Other insects and diseases caused recurrent minor damage.

Detailed accounts of forest insect and disease conditions are available from the following reports of the Department of Forestry:

Annual Report of the Forest Insect and Disease Survey,  
Annual Report of the Forest Entomology and  
Pathology Branch,  
Annual District Reports of the Forest Insect and  
Disease Survey, Alberta Region.

Note: Further information regarding these investigations and copies of reports are available on request from the Regional Director, Department of Forestry, Forest Research Laboratory, 721 Public Building, Calgary, Alberta.

### Watershed Research

The cooperative research program, started at the request of the Board to serve watershed management, completed its third year of operation under the general direction of a Steering Committee at Ottawa on which all the participating agencies are represented. Progress in establishing the three basin projects and associated studies was reported by the Technical Coordinating Committee. The Chief Forester of the Board continued to serve as Chairman of the Technical coordinating Committee and the Board staff carried out their assigned parts of the program. The Department of Forestry continued to provide the research coordinator.

In this multiple-agency undertaking known as the East Slopes (Alberta) Watershed Research Program, the number of cooperating agencies from both the Federal and Provincial governments has increased to twelve. The following agencies each carry out individual studies, undertake a part of some research project, or contribute some service to the whole undertaking:

Eastern Rockies Forest Conservation Board

It is also noted that the Commission has been very active in the field of forest research and development.

Attached are a number of reports and documents which are available from the following sources:

- 1. Annual Report of the Forest Research Institute, Ottawa
- 2. Annual Report of the Forest Research Institute, Ottawa
- 3. Annual Report of the Forest Research Institute, Ottawa
- 4. Annual Report of the Forest Research Institute, Ottawa
- 5. Annual Report of the Forest Research Institute, Ottawa

Further information regarding this investigation and copies of reports may be obtained on request from the Regional Director, Department of Forestry, Forest Research Institute, 111, King Street, Ottawa, Ontario.

### References

The following references are given for information and for the purpose of indicating the sources of the data used in this report. The references are given in the order in which they are mentioned in the text. The references are given in the order in which they are mentioned in the text. The references are given in the order in which they are mentioned in the text.

In this multiple-agency environment, it is necessary to have a clear understanding of the roles and responsibilities of each agency. The following agencies are mentioned in this report: the Department of Forestry, the Department of Agriculture, the Department of the Environment, and the Department of the Interior.

Forest Research Institute, Ottawa



Government of Canada -

Forest Research Laboratory  
Dept. of Forestry

Meteorological Branch  
Dept. of Transport

Water Resources Branch  
Dept. of Northern Affairs  
and National Resources

Canadian Wildlife Service  
National Parks Branch

Research Branch  
Dept. of Agriculture, Canada

P.F.R.A., Hydrology Division  
Dept. of Agriculture

Western Region  
National Parks Branch

Government of Alberta -

Water Resources Branch  
Dept. of Agriculture

Alberta Forest Service  
Dept. of Lands and Forests

Fish and Wildlife Service  
Dept. of Lands and Forests

Research Council of Alberta

MARMOT  
CREEK BASIN

The Marmot Creek Basin project, the first of three projects was set up with three research objectives:

For further information  
see the report

Investment in  
the future

Investment in  
the future

Investment in  
the future

Investment in  
the future

Investment in  
the future

Investment in  
the future

Investment in  
the future

Investment in  
the future

Investment in  
the future

Investment in  
the future

The Minister of the Environment, the first of  
these projects was set up with the following  
objectives:

- (1) To determine the hydrology, particularly relating to precipitation, runoff and groundwater and their inter-relationships;
- (2) To determine the effects of timber harvest upon water yield and flow regime, and;
- (3) To develop methods of manipulating high elevation, spruce-fir forest for purposes of protecting or improving watershed values.

The plan to attain the objectives includes the establishment of hydrometric and climatological networks to learn the water budget and calibrate the basin, to carry on plot and reconnaissance studies, and finally to test watershed improvement methods experimentally.

Continuing studies in Marmot Creek include a soil temperature and moisture project initiated by the Forest Research Laboratory, Department of Forestry, in 1963.

The snowpack studies begun in 1963 were continued and a trial to determine the feasibility of estimating snowpack volume by photogrammetric methods was made.

A forest cover map at a scale of 500 feet to the inch was produced, bedrock geology was re-mapped, and a habitat-type map with explanatory text, based upon work done earlier, was produced.

#### STREETER BASIN

Streeter Basin, representing the aspen-grassland type and selected in 1963, received the major effort of the program by way of inventory and instrumentation. Work to attain the research objectives made good progress. As in other basins, it is an instrumented area which not only serves to provide results of prescribed treatment but also to yield essential hydrologic data.

#### LODGEPOLE PINE BASIN

A selection program similar to the one used for Streeter Basin was applied in choosing a research basin in the lodgepole pine type.

1. To determine the hydrology, particularly  
relating to precipitation, runoff and  
ground water and their interrelationships.

2. To determine the effect of forest practices  
and water yield and flow regime, and

3. A detailed method of determining high  
water, especially forest for purposes  
of protection of the water resources.

The aim is to obtain the objectives through the  
development of hydrologic and hydrologic networks to study the water  
and climate, the forest, on the one hand, and forest management and  
and finally to the water resources management experimentally.

Continuing studies in hydrology and water resources  
management and hydrologic project initiated by the Forest Research Lab-  
oratory, Government of Canada, in 1960.

The research studies began in 1961 with  
aimed at a test to determine the feasibility of extending hydrologic  
data by hydrologic methods was made.

A small cover area of a total of 300 test  
area was selected; hydrology was measured, and a hydro-  
logic with water flow rate, forest, open work done earlier, was

Interim Report, representing the other  
hydrologic type and selected in 1961, presented  
the major effort of the program by way of  
work to obtain the research objectives.  
As in other cases, it is an instrument used which  
only serves to provide results of research treatment but also to  
the method hydrologic data.

A research project similar to the one was  
for Interim Report was completed in 1962, and  
research plan in the hydrologic and forest



Although it was planned to make the selection in 1964, this was not accomplished. Of eight candidate basins picked for further investigation Three were rejected. Investigations are continuing toward a final selection early in 1965.

#### CLIMATOLOGICAL NETWORK

The network for the upper headwaters of the Saskatchewan River was advanced by further planning and development. In autumn of 1964, 12 selected ranger stations in the Rocky Mountains Forest Reserve commenced daily winter records of precipitation and temperature in addition to the formerly collected summer data. In addition, the Castle and Red Deer Ranger Stations commenced daily year-round sunshine records. The Elbow, Shunda and Skyline Stations are now equipped to report rainfall intensity.

#### INVESTIGATIONS OUTSIDE GAUGED BASINS

Investigations comprising a sediment and water quality survey, soil survey, snow-pack measurement, groundwater survey and an erosion hazard study have been instituted as part of an inventory study on the Saskatchewan drainage.

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Note: Copies of the Second Annual Report of the Technical Coordinating Committee on Watershed Research may be obtained by writing to the Chairman of the Committee - 514 - 11 Ave. S.W., Calgary, Alberta.

\*\*\*\*\*



## FOREST PROTECTION

A total of 43 forest fires was recorded in the Conservation Area during the 1964 calendar year compared with 48 during the preceding year.

Area burned amounted to 115 acres compared with 77.38 acres during 1963.

### Fires by Causes

	<u>Total Fires</u>		<u>Per Cent</u>	
	<u>1964</u>	<u>1963</u>	<u>1964</u>	<u>1963</u>
Lightning	11	11	25.6	23.1
Campers	13	24	30.2	50.0
Smokers	8	4	18.6	8.3
Industrial	1	1	2.3	2.0
Public Projects	2	2	4.7	4.1
Miscellaneous Causes	8	6	18.6	12.5
	<u>43</u>	<u>48</u>	<u>100.0</u>	<u>100.0</u>

### Fires by Forest

	<u>Number</u>	<u>Area Burned</u>
Bow River Forest	16	98.25 Acres
Crowsnest Forest	8	.5 "
Clearwater Forest	19	16.25 "
	<u>43</u>	<u>115.00 Acres</u>

\*\*\*\*\*

# FOREST PROTECTION

A total of 43 forest fires were recorded in 1964. The total area burned was 1,130.00 acres. The total number of acres burned in 1964 was 1,130.00 acres.

Also burned contained in 1964 were 1,130.00 acres.

## Fire by Forest

Forest	1964	1963	1962	1961
Forest	11	11	11	11
Forest	13	13	13	13
Forest	8	8	8	8
Forest	1	1	1	1
Forest	2	2	2	2
Forest	0	0	0	0
Forest	43	43	43	43
Forest	1,130.00	1,130.00	1,130.00	1,130.00
Forest	1,130.00	1,130.00	1,130.00	1,130.00

## Fire by Forest

Forest	1964	1963	1962	1961
Forest	10	10	10	10
Forest	8	8	8	8
Forest	13	13	13	13
Forest	43	43	43	43
Forest	1,130.00	1,130.00	1,130.00	1,130.00
Forest	1,130.00	1,130.00	1,130.00	1,130.00



## UTILIZATION OF RESOURCES

### FOREST PRODUCTION

Statistics on timber licenses, timber permits and production of lumber and related products in the Rocky Mountains Forest Reserve, as reported by the Alberta Forest Service for the year under review, are noted hereunder:

Number of Timber Licenses offered for sale	11
--	----

Number of Timber Licenses sold	10
--------------------------------	----

Volume of Timber offered for sale:

Coniferous	207,748,100 f.b.m.
------------	--------------------

Coniferous	20,302,000 lin. ft.
------------	---------------------

Number of Special Timber Permits issued	nil
---	-----

Number of Miscellaneous Timber Permits issued	337
---	-----

Number of Active Timber Licenses	80
----------------------------------	----

Production of Lumber and related products:

Lumber (feet board measure)	63,596,048
-----------------------------	------------

Railway ties (pieces)	28,564
-----------------------	--------

Mine ties (lineal feet)	3,315
-------------------------	-------

Round Timber (lineal feet)	10,934,824
----------------------------	------------

Lath (pieces)	1,863,070
---------------	-----------

Slabs and Fuelwood (cords)	273
----------------------------	-----

Christmas Trees (number)	7,920
--------------------------	-------

# TABLE 1. SUMMARY OF RESULTS

During the period 1961-1962, the following data were obtained from the review of the 1961-1962 season's work. The data are presented in the following table. The data are presented in the following table. The data are presented in the following table.

1	Number of Timber Licensees issued in 1961	10,303,000
2	Number of Timber Licensees issued in 1962	10,303,000
3	Number of Timber Licensees issued in 1963	10,303,000
4	Number of Timber Licensees issued in 1964	10,303,000
5	Number of Timber Licensees issued in 1965	10,303,000
6	Number of Timber Licensees issued in 1966	10,303,000
7	Number of Timber Licensees issued in 1967	10,303,000
8	Number of Timber Licensees issued in 1968	10,303,000
9	Number of Timber Licensees issued in 1969	10,303,000
10	Number of Timber Licensees issued in 1970	10,303,000
11	Number of Timber Licensees issued in 1971	10,303,000
12	Number of Timber Licensees issued in 1972	10,303,000
13	Number of Timber Licensees issued in 1973	10,303,000
14	Number of Timber Licensees issued in 1974	10,303,000
15	Number of Timber Licensees issued in 1975	10,303,000
16	Number of Timber Licensees issued in 1976	10,303,000
17	Number of Timber Licensees issued in 1977	10,303,000
18	Number of Timber Licensees issued in 1978	10,303,000
19	Number of Timber Licensees issued in 1979	10,303,000
20	Number of Timber Licensees issued in 1980	10,303,000
21	Number of Timber Licensees issued in 1981	10,303,000
22	Number of Timber Licensees issued in 1982	10,303,000
23	Number of Timber Licensees issued in 1983	10,303,000
24	Number of Timber Licensees issued in 1984	10,303,000
25	Number of Timber Licensees issued in 1985	10,303,000
26	Number of Timber Licensees issued in 1986	10,303,000
27	Number of Timber Licensees issued in 1987	10,303,000
28	Number of Timber Licensees issued in 1988	10,303,000
29	Number of Timber Licensees issued in 1989	10,303,000
30	Number of Timber Licensees issued in 1990	10,303,000
31	Number of Timber Licensees issued in 1991	10,303,000
32	Number of Timber Licensees issued in 1992	10,303,000
33	Number of Timber Licensees issued in 1993	10,303,000
34	Number of Timber Licensees issued in 1994	10,303,000
35	Number of Timber Licensees issued in 1995	10,303,000
36	Number of Timber Licensees issued in 1996	10,303,000
37	Number of Timber Licensees issued in 1997	10,303,000
38	Number of Timber Licensees issued in 1998	10,303,000
39	Number of Timber Licensees issued in 1999	10,303,000
40	Number of Timber Licensees issued in 2000	10,303,000
41	Number of Timber Licensees issued in 2001	10,303,000
42	Number of Timber Licensees issued in 2002	10,303,000
43	Number of Timber Licensees issued in 2003	10,303,000
44	Number of Timber Licensees issued in 2004	10,303,000
45	Number of Timber Licensees issued in 2005	10,303,000
46	Number of Timber Licensees issued in 2006	10,303,000
47	Number of Timber Licensees issued in 2007	10,303,000
48	Number of Timber Licensees issued in 2008	10,303,000
49	Number of Timber Licensees issued in 2009	10,303,000
50	Number of Timber Licensees issued in 2010	10,303,000
51	Number of Timber Licensees issued in 2011	10,303,000
52	Number of Timber Licensees issued in 2012	10,303,000
53	Number of Timber Licensees issued in 2013	10,303,000
54	Number of Timber Licensees issued in 2014	10,303,000
55	Number of Timber Licensees issued in 2015	10,303,000
56	Number of Timber Licensees issued in 2016	10,303,000
57	Number of Timber Licensees issued in 2017	10,303,000
58	Number of Timber Licensees issued in 2018	10,303,000
59	Number of Timber Licensees issued in 2019	10,303,000
60	Number of Timber Licensees issued in 2020	10,303,000
61	Number of Timber Licensees issued in 2021	10,303,000
62	Number of Timber Licensees issued in 2022	10,303,000
63	Number of Timber Licensees issued in 2023	10,303,000
64	Number of Timber Licensees issued in 2024	10,303,000
65	Number of Timber Licensees issued in 2025	10,303,000
66	Number of Timber Licensees issued in 2026	10,303,000
67	Number of Timber Licensees issued in 2027	10,303,000
68	Number of Timber Licensees issued in 2028	10,303,000
69	Number of Timber Licensees issued in 2029	10,303,000
70	Number of Timber Licensees issued in 2030	10,303,000

Trees for transplanting (number)	270
Pulpwood (cords)	nil

## NATURAL GAS AND OIL DEVELOPMENT

During the year 1964-65 two new wells were drilled. In addition a major pipe line was constructed from Edson to Carstairs passing through the northeast portion of the Reserve.

Companies involved were Texas Gulf Sulphur Company, Shell Canada Limited, Imperial Oil Enterprises Ltd., and Alberta Gas Trunk Line Company Limited.

\*\*\*\*\*

## CONSTRUCTION AND MAINTENANCE

### NEW CONSTRUCTION

Progress on new construction carried out by the Alberta Forest Service is reported hereunder:

#### ROADS

A total of 95.27 acres of right-of-way was cleared for new roads in the Forest Reserve and 27.69 miles of new grade was constructed. All major construction projects which were programmed for the year were completed. Cost of road work amounted to \$159,000.

#### BRIDGES

One new bridge and six replacement bridges were constructed during the year.

On the Forestry Trunk Road three bridges were replaced. One 28-foot precast concrete bridge was erected across Teepee-Pole Creek and a 20-foot precast structure was placed across Shunda Creek. The Department of Highways replaced the wooden structure across the North Saskatchewan River with two 200-foot steel spans.

On the Upper Clearwater Road in the Clearwater Forest the wooden structure across the Clearwater River was replaced by a 100-foot steel structure. One new 80-foot steel bridge was





erected across the Cardinal River on the Thunder Lake Road.

On the Bow Secondary Road in the Bow River Forest an 80-foot steel replacement was erected across Canyon Creek.

On the West Castle Road in the Crowsnest Forest the wooden structure across the South Castle River was replaced by a 125-foot steel span.

On June 7 and 8 heavy rains fell causing mountain streams to overflow and seriously damage many roads and bridges throughout the area. A special warrant of \$30,000 was obtained by the Alberta Forest Service to institute repairs to roads and bridges in the Bow River and Crowsnest Forests.

Stream diversion was carried out on Ribbon Creek to prevent washout of bridges on the Marmot Road.

#### AIRSTRIPS

Airstrips construction and improvement continued in all three forests.

In the Crowsnest Forest the Livingstone Airstrip was fenced, seeded to grass and equipped with slurry pits. Slurry pits were constructed at the Cowley Airstrip. The Ghost Airstrip in the Bow River Forest was enlarged to a standard mud bombing strip. Adjacent to the Red Deer Ranger Station a standard airstrip was constructed with dimensions of 3,200 feet by 150 feet.

In the Clearwater Forest the Thunder Lake Airstrip was fenced, tie downs installed and mud pits were constructed.

#### BUILDINGS

The building program increased over the previous year and approximately \$68,000 was expended.

In the Clearwater Forest one ranger house, two ranger cottages, standard cache, garage and fuel shed were constructed at the New Nordegg Ranger Station site. Kiska Lookout was constructed.

In the Crowsnest Forest a new ranger house was constructed at Castle Ranger Station. Natural gas was installed at Willow Creek Ranger Station.



## MAINTENANCE

The road maintenance program in the Rocky Mountains Forest Reserve has increased each year. The Forestry Trunk Road is maintained to a good standard and no increase in coverage is anticipated. In line with the policy of consistent improvement 79 miles of the Trunk Road were re-ditched, re-shaped and gravelled with crushed material.

Secondary roads received the usual maintenance attention but to a lesser degree than the Trunk Road.

Regular building maintenance was carried out at all ranger stations in the Forest Reserve. As part of the conversion program to heating units two ranger station residences were converted to propane. Coleman ranger house was rewired.

\*\*\*\*\*

## MAINTENANCE

The road maintenance program in the County of San Diego is a comprehensive one, designed to keep the roads in the best possible condition at all times. The program is based on a system of regular inspections and maintenance, and is designed to prevent the occurrence of accidents and to provide a safe and comfortable driving environment for all motorists.

The County of San Diego has a long history of providing excellent road maintenance services to its residents. The County's commitment to this service is reflected in the high quality of its work and in the dedication of its staff.

The County's road maintenance program is a complex one, involving a wide range of activities. These include the inspection and repair of roads, the maintenance of bridges and overpasses, and the removal of debris and obstructions from the roadways. The County also provides a variety of other services, such as the installation of traffic signs and signals, and the maintenance of street lighting.

San Diego County



## ACCOUNTING

The statements forming part of this report reflect the revenue derived by the Alberta Forest Service from surface rights in the Conservation Area and expenditures by the Board and the Province for the maintenance and administration of the Rocky Mountains Forest Reserve.

**REVENUE** Revenue from surface rights amounted to \$477,648.89, a decrease of \$49,344.31 from the previous year. Details of revenues are summarized hereunder:

	<u>1963-64</u>	<u>1964-65</u>
Grazing Permits and Revenue Permits	\$ 78,919.55	\$ 75,714.84
Hay Permits, Fees, Dues, Etc.	5.00	15.00
Miscellaneous Leases	1,812.16	1,787.54
Miscellaneous Revenue	154.15	165.16
Timber Permits	8,288.96	15,439.39
Special Timber Permits	1,778.17	2,804.94
Timber Fees, Rent, Etc.	20,641.95	17,715.12
Timber Dues	392,663.31	362,908.78
Administrative Sundry Revenue	19,241.75	90.00
Right-of-Entry	1,008.20	1,008.12
Reimbursement of Salaries and Expenses	2,480.00	-
	<u>\$526,993.20</u>	<u>\$477,648.89</u>

**EXPENDITURE** Administrative expenditure relative to the operation of the Board amounted to \$62,950.51 provided by the Province of Alberta under Vote 1819 as detailed hereunder:



	<u>General Administrative</u>	<u>Watershed Research</u>	<u>Total Expenditure</u>
Automobiles, Trucks	\$ 18.00	\$ 3,382.11	\$3,400.11
Advertising	-	114.71	114.71
Mobile Equipment - Operation	929.88	495.54	1,425.42
Fees & Commissions	1,009.49	-	1,009.49
Compensation	-	36.40	36.40
Freight, Express & Cartage	15.25	3.28	18.53
Furnishings, Equipment & Tools	333.45	-	333.45
Materials & Supplies- Administration & Operation	809.66	560.49	1,370.15
Materials & Supplies - Construction & Maintenance	27.82	354.97	382.79
Pension Contributions - Annuities	450.00	-	450.00
Postage	125.00	-	125.00
Rentals of Equipment	798.75	567.60	1,366.35
Repairs to Equipment and Furnishings	47.68	12.00	59.68
Telephone & Telegraph	364.28	.45	364.73
Travelling Expenses	2,314.22	1,351.92	3,666.14
Salaries & Wages	48,825.56	-	48,825.56
Light, Power & Heating Fuel	2.00	-	2.00
	<u>\$56,071.04</u>	<u>\$ 6,879.47</u>	<u>\$62,950.51</u>

A current account is maintained with the Royal Bank of Canada, Calgary, Alberta, from which the Board disburses its administrative expense. All expenditures by the Board are subject to audit by the Provincial Auditor.

Expenditure for the maintenance and administration of the Conservation Area, including expenses of the Board, provided by the Province of Alberta in accordance with Section 2(a) (11) of the Memorandum of Agreement between the Government of Canada and the Government of the Province of Alberta, amounted to \$1,264,337.98 for the fiscal year under review.

Particulars	1950-51	1951-52	1952-53
Automobile, Taxi	14.00	14.00	14.00
Advertising	14.00	14.00	14.00
Home Expenses	779.78	779.78	779.78
Commuter	1,009.49	1,009.49	1,009.49
Food & Confectionery	27.48	27.48	27.48
Entertainment	11.40	11.40	11.40
Travel, Public & Conveyance	33.48	33.48	33.48
Telephone, Telegram	409.14	409.14	409.14
Postage & Parcel	314.77	314.77	314.77
Insurance & Life Insurance	40.00	40.00	40.00
Family Contribution	128.10	128.10	128.10
Interest	70.75	70.75	70.75
Household Expenses	41.00	41.00	41.00
Education & Training	30.75	30.75	30.75
Medical Expenses	1,551.93	1,551.93	1,551.93
Interest & Dividend	42,413.28	42,413.28	42,413.28
Profit	2.00	2.00	2.00
Total	50,014.14	50,014.14	50,014.14

A current account is maintained with the Royal Bank of Canada, Calgary, Alberta, which is known as the "Current Account". All expenditures in the form of cash are made by the bank and are recorded in the "Current Account".

Expenditures for the maintenance and operation of the "Current Account" are included in the "Current Account".

Expenditures for the purchase of shares in the "Current Account" are included in the "Current Account".

Expenditures for the purchase of shares in the "Current Account" are included in the "Current Account".

Expenditures for the purchase of shares in the "Current Account" are included in the "Current Account".



For financial details see Appendix "C",  
Statements "A", "B" and "C".

WORKMEN'S  
COMPENSATION

The Board's deposit of \$5,000 with the Alberta Workmen's Compensation Board earned interest of \$220 less administrative expense and reserve for rehabilitation and enhanced disabilities of \$88.00, leaving a net credit to Proprietary Equity of \$132.

Claims for injuries sustained by temporary Board field staff (non-civil servants) amounted to \$36.40 during the year under review.

ESTIMATES  
FISCAL YEAR  
1965-66

Estimates for the administration of the Board for the fiscal year 1965-66 in the amount of \$63,600 were approved by the Legislature of the Province of Alberta under Appropriation No. 1819.

\*\*\*\*\*



## GRAZING

The number of domestic animals grazed under permit as compared with the previous year is given below.

	Crowsnest Forest 1963	1965	Bow River Forest 1963	1964	Clearwater Forest 1963	1964	Forest Reserve 1963	1964
Cattle	14,031	15,809	9,145	9,197	1,031	1,152	24,207	26,158
Sheep	1,040	820	-	-	-	-	1,040	820
Horses*	-	-	258	317	213	222	471	539
Total	15,071	16,629	9,403	9,514	1,244	1,374	25,718	27,517
Actual Use in A.U.M.**	49,773	51,955	34,724	33,717	7,052	7,333	91,549	93,005
No. of Permits	187	188	99	96	27	27	313	311
Revenue	\$44,573.81	\$44,038.80	\$30,116.30	\$29,154.70	\$3,839.16	\$4,183.67	\$78,529.27	\$77,377.17

\* An additional 498 pack and saddle horses were brought into the Reserve for varying periods.

\*\* A.U.M. - Animal Unit Month.

The amount of forage required by one animal unit, which is equivalent to a mature cow and a calf at foot, for one month. Actual use made by horses not under permit is also included here.





DISTRIBUTION OF ALBERTA FOREST SERVICE PERSONNEL

Fiscal Year 1964-65

Permanent Staff	Rocky Mountains Reserve-Calgary Office	Crowsnest Forest	Bow River Forest	Clearwater-Rocky Forest	TOTALS
Forest Superintendents	-	1	1	1	3
Fire Control Officers	-	1	1	1	3
Foresters	-	1	1	1	3
Chief Rangers	-	1	1	1	3
Forest Management Technicians	-	-	-	1	1
District Rangers	-	5	7	8	20
Land Use Officers	-	1	-	1	2
Assistant Rangers	-	4	9	6	19
Chief Clerks	1	-	-	-	1
Clerks - Stenographers	1	2	3	4	10
Radio Operators	-	1	2	1	4
Carpenters	-	-	1	1	2
Maintenance Foremen - Buildings	-	-	-	-	-
- Mechanical	1	-	-	-	1
- Roads	1	-	-	1	2
Mechanical Foremen	-	1	1	1	3
Garage Mechanics	1	-	-	-	1
Gradersmen	2	-	-	-	2
Warehousemen	-	1	1	1	3
Automotive Equipment Operators	1	-	1	1	3
Lookoutmen - Permanent	-	1	1	2	4
Lookoutmen - Seasonal	8	20	30	32	90
	-	6	9	8	23
	8	26	39	40	113



**GOVERNMENT OF THE PROVINCE OF ALBERTA**  
**OFFICE OF THE PROVINCIAL AUDITOR**

**EDMONTON,**

June 16, 1965

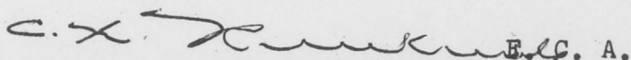
Eastern Rockies Forest Conservation Board  
Calgary, Alberta

I have audited the books and records of the Eastern Rockies Forest Conservation Board, maintained by the Department of Lands and Forests, Government of the Province of Alberta, for the year ended March 31, 1965, and submit the following statements herewith:

<u>Statement</u>	<u>Particulars</u>
A.	Balance Sheet
B.	Statement of Maintenance Expenditure
C.	Statement of Government of Canada and Government of Province of Alberta Equity

Total capital expenditures from inception to March 31, 1955, amounting to \$6,278,906.10 were made from funds provided by the Government of Canada (as authorized under Section 8 (a) of the Memorandum of Agreement) for the location and construction of forest improvements, the making of a forest inventory, reforestation, and such other works and services as the Board considered necessary in that area of the East Slope of the Rocky Mountains forming part of the watershed of the Saskatchewan River, as more definitely described in the Appendix to the Act. The total expenditure was not to exceed \$6,300,000.00 during the seven years ended March 31, 1955.

I certify, that in my opinion, the attached Balance Sheet is properly drawn up so as to show the true financial position of the Eastern Rockies Forest Conservation Board as at March 31, 1965, according to the information and explanations given to me and as shown by the records of the Board and the accompanying statements correctly set forth the result of transactions for the year ended at that date.

  
Provincial Auditor.





STATEMENT A

EASTERN ROCKIES FOREST CONSERVATION BOARD

BALANCE SHEET AS AT MARCH 31, 1965

ASSETS

Workmen's Compensation Board deposit	\$ 5,132.00
Value of loose tools and equipment transferred to the Province of Alberta as at April 1, 1959	173,496.38
Capital improvements and works	<u>5,716,615.20</u>
	<u>\$ 5,895,243.58</u>

LIABILITIES

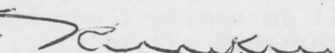
Government of Canada and Government of the Province of Alberta, equity as per Statement C	<u>\$ 5,895,243.58</u>
--	------------------------

Note: Section 20 of the Memorandum of Agreement set forth in the Schedules to Chapter 59, Statutes of Canada, 1947 and Chapter 20, Statutes of Alberta, 1948 and Amendment Acts, 1957 provides that upon termination of the Agreement:

(a) All improvements or works resulting from the carrying out of the programs of the Board shall belong to the Province.

(b) All other property acquired by the Board shall belong to the Province.

This is the Balance Sheet referred to in my report of June 16, 1965, addressed to the Eastern Rockies Forest Conservation Board.

C. X.  F. C. A.  
Provincial Auditor.



STATEMENT B

EASTERN ROCKIES FOREST CONSERVATION BOARD

STATEMENT OF MAINTENANCE EXPENDITURE

FOR THE YEAR ENDED MARCH 31, 1965

Maintenance expenses:		
Salaries	\$ 410,834.89	
Wages	225,700.45	
Maintenance, material and operation expense	124,155.08	
Equipment and motor vehicle expense	115,656.84	
Rentals	114,150.92	
Travelling,	35,734.93	
Administration and general expense	32,916.66	
Heat, light and power	16,694.10	
Freight, express and cartage	10,730.95	
Telegrams and telephones	4,810.98	
Postage	1,301.87	
Honorarium	1,000.00	
Pensions	450.00	
Advertising	254.51	
Transportation	52.00	
Compensation	<u>36.40</u>	
		\$ 1,094,480.58
Automobiles, trucks and mobile equipment		155,090.45
Furnishings, equipment and tools		14,766.95
		<hr/>
		\$ 1,264,337.98
		<hr/> <hr/>
Provided by:		
Appropriations 1815, 1819, and 1821		\$ 1,264,337.98
		<hr/> <hr/>

Note: The total amount expended by the Board was provided by the Government of the Province of Alberta in accordance with Section 2 (a) (ii) of the Memorandum of Agreement, dated June 17, 1953, between the Government of Canada and the Government of the Province of Alberta as set forth in the Schedules to Chapter 41, Statutes of Canada, 1952, and Chapter 36, Statutes of Alberta, 1953.

The remuneration and expenses of members of the Board were paid by the Governments of Canada and the Province of Alberta in accordance with Section 2 (b) (iii) of the Memorandum of Agreement. The amounts paid by the Province of Alberta, including the honorarium of \$1,000.00 to A. T. Baker, have been incorporated into the above statement.

Page 1

THE UNITED STATES OF AMERICA

DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

1. Name of the land  
2. Location  
3. Date of acquisition  
4. Amount of land  
5. Purpose of acquisition  
6. Name of the person or organization  
7. Address  
8. Telephone number  
9. E-mail address  
10. Website  
11. Other information

1. Name of the land  
2. Location  
3. Date of acquisition  
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4. Amount of land  
5. Purpose of acquisition  
6. Name of the person or organization  
7. Address  
8. Telephone number  
9. E-mail address  
10. Website  
11. Other information



STATEMENT C

EASTERN ROCKIES FOREST CONSERVATION BOARD  
STATEMENT OF GOVERNMENT OF CANADA AND GOVERNMENT  
OF THE PROVINCE OF ALBERTA EQUITY  
FOR THE YEAR ENDED MARCH 31, 1965

Balance as at April 1, 1964	\$ 5,895,250.74
Add:	
Workmen's Compensation Board deposit interest	132.00
	<hr/>
	\$ 5,895,382.74
Deduct:	
Workmen's Compensation Board interest remitted	139.16
	<hr/>
Government of Canada and Government of the Province of Alberta equity as at March 31, 1965	\$ 5,895,243.58
	<hr/> <hr/>

CIRC NO 19 '78 Date Due

NOV 20	RETURN
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SD 414 C2 E116 1964/1965  
EASTERN ROCKIES FOREST  
CONSERVATION BOARD

ANNUAL REPORT OF THE EASTERN  
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